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(FILE 'HOME' ENTERED AT 14:48:31 ON 21 OCT 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 14:56:36 ON 21 OCT 2004

E RAO R/AU

E RAO REENA/AU

L1 29 S E3

L2 16 DUP REM L1 (13 DUPLICATES REMOVED)

FILE 'EUROPATFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL, USPAT2' ENTERED AT 15:37:08 ON 21 OCT 2004

L3 5669 S (COCONUT(2A)OIL) (L) (LINOLEIC(2A)ACID# OR LINOLENIC(2A)ACID#)

L4 314 S L3 (L) INTERESTER?

L5 200 S L4 NOT PY>=2001

FILE 'USPATFULL, USPAT2' ENTERED AT 15:41:39 ON 21 OCT 2004

L6 82 S L5

L7 60 S L4 (L) (LAURIC(2A)ACID#)

FILE 'EUROPATFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL, USPAT2' ENTERED AT 15:43:19 ON 21 OCT 2004

L8 123 S L7

L9 70 S L8 NOT PY>=2001

L10 8 S L7/CLM

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 16:19:21 ON 21 OCT 2004

L11 2 S L7

FILE 'EUROPATFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL, USPAT2' ENTERED AT 16:42:39 ON 21 OCT 2004

E KAIMAL T/IN

L12 7 S E4-E5

L13 0 S L12 AND COCONUT

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 16:46:55 ON 21 OCT 2004

E KAIMAL T/AU

L14 111 S E4-E7

L15 2 S L14 AND COCONUT

L2 ANSWER 1 OF 16 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2004092147 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14607840
TITLE: Hypertonic stress activates glycogen synthase kinase
3beta-mediated apoptosis of renal medullary interstitial
cells, suppressing an NFkappaB-driven cyclooxygenase-2-
dependent survival pathway.
AUTHOR: Rao Reena; Hao Chuan-Ming; Breyer Matthew D
CORPORATE SOURCE: Division of Nephrology, Vanderbilt University Medical
Center, Nashville, Tennessee 37232, USA.
CONTRACT NUMBER: 2P50-DK39261 (NIDDK)
DK 065024 (NIDDK)
SOURCE: Journal of biological chemistry, (2004 Feb 6) 279 (6)
3949-55.
Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200404
ENTRY DATE: Entered STN: 20040302
Last Updated on STN: 20040402
Entered Medline: 20040401

L2 ANSWER 2 OF 16 MEDLINE on STN DUPLICATE 2
ACCESSION NUMBER: 2004191727 IN-PROCESS
DOCUMENT NUMBER: PubMed ID: 15086459
TITLE: Membrane-associated PGE synthase-1 (mPGES-1) is coexpressed
with both COX-1 and COX-2 in the kidney.
AUTHOR: Schneider Andre; Zhang YaHua; Zhang Mingzhi; Lu Wendell J;
Rao Reena; Fan Xuefeng; Redha Reyadh; Davis Linda;
Breyer Richard M; Harris Raymond; Guan YouFei; Breyer
Matthew D
CORPORATE SOURCE: Division of Nephrology, Department of Medicine, Vanderbilt
University Medical Center, Nashville, Tennessee 37232, USA.
CONTRACT NUMBER: DK-065074-01 (NIDDK)
DK-37097 (NIDDK)
SOURCE: Kidney international, (2004 Apr) 65 (4) 1205-13.
Journal code: 0323470. ISSN: 0085-2538.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals
ENTRY DATE: Entered STN: 20040417
Last Updated on STN: 20040421

L2 ANSWER 3 OF 16 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
ACCESSION NUMBER: 2004:287428 BIOSIS
DOCUMENT NUMBER: PREV200400286185
TITLE: Role of Cyclooxygenase 2 induction in Lithium (Li+) Induced
polyuria.
AUTHOR(S): Rao, Reena [Reprint Author]; Zhang, Mingzhi;
Breyer, Matthew D; Hao, Chuanming
CORPORATE SOURCE: Medicine, Nephrology Division, Vanderbilt University
Medical Centre, S3223, MCN,, Nashville,, TN,, 37232, USA
renrao@yahoo.com
SOURCE: FASEB Journal, (2004) Vol. 18, No. 4-5, pp. Abst. 673.28.
<http://www.fasebj.org/>. e-file.
Meeting Info.: FASEB Meeting on Experimental Biology:
Translating the Genome. Washington, District of Columbia,
USA. April 17-21, 2004. FASEB.
ISSN: 0892-6638 (ISSN print).
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 16 Jun 2004

L2 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:320008 CAPLUS
 DOCUMENT NUMBER: 138:320253
 TITLE: Cholesterol-lowering structured lipids with omega-3 PUFA
 INVENTOR(S): Rao, Reena; Sambaiah, Kari; Lokesh, Belur Ramaswamy
 PATENT ASSIGNEE(S): Council of Scientific and Industrial Research, India
 SOURCE: PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003033633	A1	20030424	WO 2001-IN183	20011018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1438377	A1	20040721	EP 2001-978808	20011018
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			WO 2001-IN183	W 20011018
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L2 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:320007 CAPLUS
 DOCUMENT NUMBER: 138:320252
 TITLE: Cholesterol-lowering structured lipids with omega-6 PUFA
 INVENTOR(S): Rao, Reena; Sambaiah, Kari; Lokesh, Belur Ramaswamy
 PATENT ASSIGNEE(S): Council of Scientific and Industrial Research, India
 SOURCE: PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003033632	A1	20030424	WO 2001-IN182	20011018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1438378	A1	20040721	EP 2001-980890	20011018
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

US 2003077340 A1 20030424 US 2001-14842 20011210
PRIORITY APPLN. INFO.: WO 2001-IN182 W 20011018
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:319459 CAPLUS
DOCUMENT NUMBER: 138:286540
TITLE: Cholesterol-lowering structured lipids obtained by
omega-3 polyunsaturated fatty acids
interesterification with coconut oil
INVENTOR(S): Rao, Reena; Sambaiah, Kari; Lokesh, Belur
Ramaswamy
PATENT ASSIGNEE(S): India
SOURCE: U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003078298	A1	20030424	US 2001-14247	20011022
US 6608223	B2	20030819		

PRIORITY APPLN. INFO.: US 2001-14247 20011022

L2 ANSWER 7 OF 16 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
ACCESSION NUMBER: 2003:422040 BIOSIS
DOCUMENT NUMBER: PREV200300422040
TITLE: Cholesterol lowering structured lipids containing omega 3
polyunsaturated fatty acids and their process thereof.
AUTHOR(S): Rao, Reena [Inventor, Reprint Author]; Sambaiah,
Kari [Inventor]; Lokesh, Belur Ramaswamy [Inventor]
CORPORATE SOURCE: Mysore, India
ASSIGNEE: Council of Scientific and Industrial Research,
New Delhi, IN, USA
PATENT INFORMATION: US 6608223 August 19, 2003
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Aug 19 2003) Vol. 1273, No. 3.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Sep 2003
Last Updated on STN: 10 Sep 2003

L2 ANSWER 8 OF 16 MEDLINE on STN DUPLICATE 3
ACCESSION NUMBER: 2003507847 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14584598
TITLE: TG containing stearic acid, synthesized from coconut oil,
exhibit lipidemic effects in rats similar to those of cocoa
butter.
AUTHOR: Rao Reena; Lokesh Belur R
CORPORATE SOURCE: Department of Lipid Science and Traditional Foods, Central
Food Technological Research Institute, Mysore-570 013,
India.
SOURCE: Lipids, (2003 Sep) 38 (9) 913-8.
Journal code: 0060450. ISSN: 0024-4201.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200406
ENTRY DATE: Entered STN: 20031031
Last Updated on STN: 20040609
Entered Medline: 20040608

L2 ANSWER 9 OF 16 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN

ACCESSION NUMBER: 2004:92904 BIOSIS
DOCUMENT NUMBER: PREV200400086097
TITLE: GSK 3beta inhibition promotes renal medullary interstitial
cell viability through COX 2.
AUTHOR(S): **Rao, Reena** [Reprint Author]; Breyer, Matthew D.
[Reprint Author]; Hao, Chuanming [Reprint Author]
CORPORATE SOURCE: Nephrology and Hypertension, VAMC, Vanderbilt University
Medical Center, Nashville, TN, USA
SOURCE: Journal of the American Society of Nephrology, (November
2003) Vol. 14, No. Abstracts Issue, pp. 343A. print.
Meeting Info.: Meeting of the American Society of
Nephrology Renal Week. San Diego, CA, USA. November 12-17,
2003. American Society of Nephrology.
CODEN: JASNEU. ISSN: 1046-6673.
DOCUMENT TYPE: Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 11 Feb 2004
Last Updated on STN: 11 Feb 2004

L2 ANSWER 10 OF 16 MEDLINE on STN DUPLICATE 4

ACCESSION NUMBER: 2003338246 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12870651
TITLE: Nutritional evaluation of structured lipid containing omega
6 fatty acid synthesized from coconut oil in rats.
AUTHOR: **Rao Reena**; Lokesh Belur R
CORPORATE SOURCE: Department of Lipid Science and Traditional Foods, Central
Food Technological Research Institute, Mysore, India.
SOURCE: Molecular and cellular biochemistry, (2003 Jun) 248 (1-2)
25-33.
Journal code: 0364456. ISSN: 0300-8177.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200404
ENTRY DATE: Entered STN: 20030722
Last Updated on STN: 20040420
Entered Medline: 20040419

L2 ANSWER 11 OF 16 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 2003485218 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14563409
TITLE: Genomic structure and genitourinary expression of mouse
cytosolic prostaglandin E(2) synthase gene.
AUTHOR: Zhang YaHua; Schneider Andre; **Rao Reena**; Lu
Wendell J; Fan XueFeng; Davis Linda; Breyer Richard M;
Breyer Matthew D; Guan YouFei
CORPORATE SOURCE: Division of Nephrology, S-3223 MCN, Department of Medicine,
Vanderbilt University Medical Center, Nashville, TN
37232-2372, USA.
CONTRACT NUMBER: DK37097 (NIDDK)
R01 DK065074-01 (NIDDK)
SOURCE: Biochimica et biophysica acta, (2003 Oct 20) 1634 (1-2)
15-23.
Journal code: 0217513. ISSN: 0006-3002.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200312
ENTRY DATE: Entered STN: 20031018
Last Updated on STN: 20031219
Entered Medline: 20031204

L2 ANSWER 12 OF 16 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN

ACCESSION NUMBER: 2003:401563 BIOSIS
DOCUMENT NUMBER: PREV200300401563
TITLE: Glycogen synthase kinase 3 β modulates hyperosmotic stress-induced apoptosis in renal medullary interstitial cells.
AUTHOR(S): Rao, Reena [Reprint Author]; Breyer, Matthew Douglas; Hao, Chuan-Ming
CORPORATE SOURCE: Nephrology, Vanderbilt University, MCN, Nashville, TN, 37232, USA
renrao@yahoo.com; breyer.matthew@mcmail.vanderbilt.edu; haochuanming@mcmail.vanderbilt.edu
SOURCE: FASEB Journal, (March 2003) Vol. 17, No. 4-5, pp. Abstract No. 581.8. <http://www.fasebj.org/>. e-file.
Meeting Info.: FASEB Meeting on Experimental Biology: Translating the Genome. San Diego, CA, USA. April 11-15, 2003. FASEB.
ISSN: 0892-6638 (ISSN print).
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Sep 2003
Last Updated on STN: 3 Sep 2003

L2 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6

ACCESSION NUMBER: 2002:737189 CAPLUS
DOCUMENT NUMBER: 137:383845
TITLE: Enzymatic acidolysis in hexane to produce n-3 or n-6 FA-enriched structured lipids from coconut oil: optimization of reactions by response surface methodology
AUTHOR(S): Rao, Reena; Manohar, Balaraman; Sambaiah, Kari; Lokesh, Belur R.
CORPORATE SOURCE: Department of Lipid Science and Traditional Foods, Central Food Technological Research Institute, Mysore, 570013, India
SOURCE: Journal of the American Oil Chemists' Society (2002), 79(9), 885-890
CODEN: JAOCA7; ISSN: 0003-021X
PUBLISHER: AOCS Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7

ACCESSION NUMBER: 2002:497852 CAPLUS
DOCUMENT NUMBER: 137:184705
TITLE: Plackett-Burman design for determining the preference of Rhizomucor miehei lipase for FA in acidolysis reactions with coconut oil
AUTHOR(S): Rao, Reena; Divakar, S.; Lokesh, Belur R.
CORPORATE SOURCE: Departments of Lipid Science and Traditional Foods, Central Food Technological Research Institute (CFTRI), Mysore, 570 013, India
SOURCE: Journal of the American Oil Chemists' Society (2002), 79(6), 555-560
CODEN: JAOCA7; ISSN: 0003-021X
PUBLISHER: AOCS Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 15 OF 16 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN

ACCESSION NUMBER: 2002:605070 BIOSIS
DOCUMENT NUMBER: PREV200200605070
TITLE: Lithium (Li+) induced diabetes insipidus is associated with increased renal medullary COX2 expression via inhibition of glycogen synthase kinase 3beta.
AUTHOR(S): Rao, Reena [Reprint author]; Zang, Min-Zhi [Reprint author]; Zhao, Min [Reprint author]; Zhang, Li [Reprint author]; Redha, Reyadh [Reprint author]; Moeckel, Gilbert [Reprint author]; Breyer, Matthew [Reprint author]; Hao, Chuan-Ming [Reprint author]
CORPORATE SOURCE: Division of Nephrology and Hypertension, VAMC and Vanderbilt University Medical Center, Nashville, TN, USA
SOURCE: Journal of the American Society of Nephrology, (September, 2002) Vol. 13, No. Program and Abstracts Issue, pp. 492A. print.
Meeting Info.: Meeting of the American Society of Nephrology. Philadelphia, PA, USA. October 30-November 04, 2002. American Society of Nephrology.
CODEN: JASNEU. ISSN: 1046-6673.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 27 Nov 2002
Last Updated on STN: 27 Nov 2002

L2 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8

ACCESSION NUMBER: 2001:312331 CAPLUS
DOCUMENT NUMBER: 135:75936
TITLE: Differential scanning calorimetric studies on structured lipids from coconut oil triglycerides containing stearic acid
AUTHOR(S): Rao, Reena; Sankar, Kadimi Udaya; Sambaiah, Kari; Lokesh, Belur R.
CORPORATE SOURCE: Department of Biochemistry and Nutrition, Central Food Technological Research Institute, Mysore, 570 013, India
SOURCE: European Food Research and Technology (2001), 212(3), 334-343
CODEN: EFRTFO; ISSN: 1438-2377
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1987:48984 CAPLUS
DOCUMENT NUMBER: 106:48984
TITLE: Human milk fat substitutes
INVENTOR(S): Tsujiwaki, Giichi; Hirose, Masakazu; Yahiro, Masatoshi
PATENT ASSIGNEE(S): Ueda Seiyu K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 61209544	A2	19860917	JP 1985-52768	19850314
JP 63031170	B4	19880622		
PRIORITY APPLN. INFO.:			JP 1985-52768	19850314

AB A human milk fat substitute consists of 30-50% **interesterified** fats and oils (containing capric acid 1-6, caprylic acid 1-5, **lauric acid** 12-17, myristic acid 4-10, palmitic acid 16-30, stearic acid 2-7, oleic acid 18-32, **linoleic acid** 4-27%, etc.) and 50-90% mixed fats containing 18-30% palmitic acid (70-80% of them are linked to the 2nd position of triglycerides). Thus, a composition containing **coconut oil** 30, palm oil 35, and soybean oil 35% was **interesterified** in the presence of Na methylate (catalyst) at 60° for 30 min. The product 40 and purified lard 60% were mixed to give a human milk fat substitute.

ACCESSION NUMBER: 1959:125732 CAPLUS
DOCUMENT NUMBER: 53:125732
ORIGINAL REFERENCE NO.: 53:22610h-i,22611a-c
TITLE: Triglyceride compositions especially for use in salad oils
PATENT ASSIGNEE(S): Thomas Hedley & Co. Ltd.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
GB 816343		19590708	GB	
AB	Glyceride oils consisting of esters of fatty acids containing 8-24 C atoms/mol. and normally not suitable for use in mayonnaises and salad oils are made suitable for such use by random interesterification with glycerol triesters (I) of acetic, propionic, butyric, or caproic acid, or their mixts. Oils having min. iodine values of 80, and derived from animal fats, from marine oils or their hydrogenated products, and from oils which are largely esters of oleic, linoleic and linolenic acids , and their hydrogenated products, are interesterified with I in an I:oil mole ratio of 1.0:0.5-4.0. The combined acids in the desired product consist of 5-25% by weight of the acids derived from I. Oils consisting largely of esters of lauric acid , and of no specified iodine value, are similarly interesterified with I in an I:oil mole ratio of 1:0.5-2.0. The combined acids in the product consist of 25-30% by weight acids derived from I. The mixture plus about 0.3% by weight, of a catalyst, e.g. NaOMe, is heated to 40-60° until the reaction is complete (15-45 min.). The catalyst is inactivated with H2O or acid, and the separated oily product is treated for removal of excess of I, soap stock (or excess acid), and H2O. The product, after addnl. refinement, or modification, may fail to meet the A.O.C.S. chill test requirements for salad oils, but can be used successfully in mayonnaises of superior emulsion-stability at household-refrigerator temps., and whole eggs as well as egg-yolks can be used in these oils. Typical oils thus used are partially hydrogenated			

cottonseed and soybean oil and unhydrogenated coconut oil.

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:63165 CAPLUS
DOCUMENT NUMBER: 136:401441
TITLE: A mild and efficient method for esterification and transesterification catalyzed by iodine
AUTHOR(S): Ramalinga, K.; Vijayalakshmi, P.; **Kaimal, T. N. B.**
CORPORATE SOURCE: Lipid Science & Technology, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
SOURCE: Tetrahedron Letters (2002), 43(5), 879-882
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:401441
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AU Ramalinga, K.; Vijayalakshmi, P.; **Kaimal, T. N. B.**

IT Castor oil

Coconut oil

Peanut oil

RL: SPN (Synthetic preparation); PREP (Preparation)

(Me esters; esterification and transesterification catalyzed by iodine)

IT Castor oil

Coconut oil

Peanut oil

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification and transesterification catalyzed by iodine)

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:215389 CAPLUS
DOCUMENT NUMBER: 112:215389
TITLE: Modification of vegetable oils by lipase catalyzed interesterification
AUTHOR(S): **Kaimal, T. N. B.**; Saroja, M.
CORPORATE SOURCE: Reg. Res. Lab., CSIR, Hyderabad, 500 007, India
SOURCE: Journal of the Oil Technologists' Association of India (Mumbai, India) (1989), 21(1), 2-10
CODEN: JOTIAC; ISSN: 0970-4094
DOCUMENT TYPE: Journal
LANGUAGE: English

AU **Kaimal, T. N. B.**; Saroja, M.

AB Lipase-catalyzed interesterification (acidolysis) was investigated as a means to modify the fatty acid and hence glyceride composition of common vegetable oils in an attempt to alleviate the nutritional drawbacks of these oils. The oils studied were, peanut oil, mustard oil, **coconut** oil, and soybean oil. Attempts were also made to impart a ghee-like flavor to vanaspati by this reaction.

IT **Coconut** oil

Peanut oil

Soybean oil

RL: RCT (Reactant); RACT (Reactant or reagent)

(transesterification of, lipase-catalyzed)

IT 334-48-5, Capric acid

RL: BIOL (Biological study)

(**coconut** oil transesterification with)